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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Alexander Alexandrovich Maltsev et al.

Title: HIGH-THROUGHPUT MULTICARRIER COMMUNICATION SYSTEMS AND METHODS  
FOR EXCHANGING CHANNEL STATE INFORMATION

Docket No.: 884.B95US1

Filed: March 26, 2004

Examiner: Unknown

Serial No.: 10/810,771

Due Date: N/A

Group Art Unit: 2631



**MS Amendment**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

☒ A return postcard.

☒ An Information Disclosure Statement (2 pgs.), Form 1449 (1 pg.), and copies of 7 cited documents, including the International Search Report for corresponding PCT Application No. PCT/US2005/001032 (4 pgs.).

If not provided for in a separate paper filed herewith, Please consider this a **PETITION FOR EXTENSION OF TIME** for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

Customer Number 21186

By: Ann M. McCrackin  
Atty: Ann M. McCrackin  
Reg. No. 42,858

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 26th day of July, 2005.

JAMES KANYUSIK  
Name

[Signature]  
Signature

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.

(GENERAL)

S/N 10/810,771

PATENT



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

|             |   |                  |            |
|-------------|---|------------------|------------|
| Applicant:  | Alexander Alexandrovich Maltsev et al.  | Examiner:        | Unknown    |
| Serial No.: | 10/810,771  | Group Art Unit:  | 2631       |
| Filed:      | March 26, 2004  | Docket:          | 884.B95US1 |
| Title:      | HIGH-THROUGHPUT MULTICARRIER COMMUNICATION SYSTEMS AND METHODS FOR EXCHANGING CHANNEL STATE INFORMATION |                  |            |
| Assignee:   | Intel Corporation   | Customer Number: | 21186      |

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**INFORMATION DISCLOSURE STATEMENT**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicant respectfully requests that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicant requests that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicant with the next official communication.

The documents, listed on the attached 1449, were discovered as a result of a Search Report in Applicant's corresponding foreign patent application. Enclosed for the Examiner's information is a copy of the cited documents and the Search Report.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

## INFORMATION DISCLOSURE STATEMENT

Customer No.: 21186

Serial No.: 10/810,771

Filing Date: March 26, 2004

Title: HIGH-THROUGHPUT MULTICARRIER COMMUNICATION SYSTEMS AND METHODS FOR EXCHANGING CHANNEL STATE INFORMATION

Assignee: Intel Corporation

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Dkt: 884.B95US1 (INTEL)

Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications are no longer required to be provided to the Office. Notification of this change was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004. Thus, Applicant has not included copies of any US Patents or Published Applications cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicant's Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

ALEXANDER ALEXANDROVICH MALTSEV ET AL.

By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
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Date July 26, 2005

By Ann M. McCrackin  
Ann M. McCrackin  
Reg. No. 42,858

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 26th day of July, 2005.

JAMES KAUYUSIK  
Name

James Kauryusik  
Signature

|  |  |                    |            |             |                |                      |                    |                |      |               |         |
|--|--|--------------------|------------|-------------|----------------|----------------------|--------------------|----------------|------|---------------|---------|
| Substitute for form 1449A/PTO<br><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b><br>(Use as many sheets as necessary) | Complete if Known<br><table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Application Number</td> <td>10/810,771</td> </tr> <tr> <td>Filing Date</td> <td>March 26, 2004</td> </tr> <tr> <td>First Named Inventor</td> <td>Maltsev, Alexander</td> </tr> <tr> <td>Group Art Unit</td> <td>2631</td> </tr> <tr> <td>Examiner Name</td> <td>Unknown</td> </tr> </table> | Application Number | 10/810,771 | Filing Date | March 26, 2004 | First Named Inventor | Maltsev, Alexander | Group Art Unit | 2631 | Examiner Name | Unknown |
| Application Number   | 10/810,771   |                    |            |             |                |                      |                    |                |      |               |         |
| Filing Date  | March 26, 2004   |                    |            |             |                |                      |                    |                |      |               |         |
| First Named Inventor   | Maltsev, Alexander   |                    |            |             |                |                      |                    |                |      |               |         |
| Group Art Unit   | 2631   |                    |            |             |                |                      |                    |                |      |               |         |
| Examiner Name  | Unknown  |                    |            |             |                |                      |                    |                |      |               |         |
| Sheet 1 of 1   | Attorney Docket No: 884.B95US1   |                    |            |             |                |                      |                    |                |      |               |         |

| US PATENT DOCUMENTS |                     |                  |   |                            |
|---------------------|---------------------|------------------|---|----------------------------|
| Examiner Initial *  | USP Document Number | Publication Date | Name of Patentee or Applicant of cited Document | Filing Date If Appropriate |
|                     | US-2003/0161282 A1  | 08/28/2003       | Medvedev, I. , et al.                           | 02/26/2002                 |

| FOREIGN PATENT DOCUMENTS |                     |                  |   |                |
|--------------------------|---------------------|------------------|---|----------------|
| Examiner Initials*       | Foreign Document No | Publication Date | Name of Patentee or Applicant of cited Document | T <sup>2</sup> |
|                          | EP-1187506A1        | 03/13/2002       | Kogiantis, A. G., et al.                        |                |
|                          | EP-1533963A2        | 05/25/2005       | Moorti, T. , et al.                             |                |
|                          | WO-2005/034435A2    | 04/14/2005       | Maltsev, A. A., et al.                          |                |

| OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS |                      |  |                |
|--|----------------------|--|----------------|
| Examiner Initials*                                 | Cite No <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.  | T <sup>2</sup> |
|  |                      | "802.11g™ IEEE Local and Metropolitan Area Networks; Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications; Amendment 4: Further Higher Data Rate Extension in the 2.4 GHz Band", <u>IEEE Std 802.11g™</u> , The Institute of Electrical and Electronics Engineers, Inc. NY, (Jun. 27, 2003), 78 pgs.                |                |
|  |                      | "International Search Report for corresponding PCT Application No. PCT/US2005/001032", (Attorney Docket No. 884.B95WO1),(June 23, 2005), 4 pgs.  |                |
|  |                      | "Supplement to IEEE Standard for IT-Telecommunications & Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements. Part 11:Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications: High-Speed Physical Layer in 5GHZ Band", <u>IEEE Std 802.11a-1999</u> , (Dec. 30, 1999), 90 pgs. |                |
|  |                      | BANGERTER, B., et al., "Wireless Technologies: High-Throughput Wireless LAN Air Interface", Intel Technology Journal, 7(3), (Aug. 19, 2003), 47-57   |                |

EXAMINER

DATE CONSIDERED